

10/10/82

Serial No. 10/682,569
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Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A map data transmitting method, comprising steps of:

setting a specific route; *PPSU p.4*

specifying map data contained in a slicing range within a predetermined *D 63* distance from the route having been set based upon map data that include road data and background data;

newly creating a new polygon data if an original polygon data contained in the background data included in the specified map data is partially contained in the slicing range and another portion of the original polygon data is outside the slicing range, by removing polygon data corresponding to the portion outside the slicing range from the original polygon data; and

transmitting a road map specified in correspondence to the map data and background data containing the new polygon data.

D 63 loading the map data

2. (original) A map data transmitting method according to claim 1, wherein:

in the transmitting step, either the original polygon data or the new polygon data are transmitted based upon data volumes of the original polygon data and the new polygon data.

3. (original) A map data transmitting method according to claim 2,
wherein:

in the transmitting step, either the original polygon data or the new polygon data are transmitted based upon a difference between the data volumes of the original polygon data and the new polygon data.

4. (original) A map data transmitting method according to claim 2,
wherein:

in the transmitting step, either the original polygon data or the new polygon data are transmitted based upon an areal ratio of the original polygon data and the new polygon data.

5. (currently amended) A map data transmitting method according to ~~any of claims 2 through 4~~ claim 2, wherein;

when the new polygon data are transmitted, information indicating that the new polygon data are transmitted is appended to transmission data being transmitted.

6. (currently amended) A map data transmitting method according to ~~any of claims 1 through 5~~ claim 1, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

7. (currently amended) A map data transmitting apparatus that executes a map data transmitting method according to ~~any of claims 1 through 6~~ claim 1.

8. (original) An information terminal comprising:
a reception unit that receives map data transmitted from a map data transmitting apparatus according to claim 7; and
a display unit that displays a map based upon the map data having been received.

9. (original) An information terminal according to claim 8 further comprising:

a requesting unit that issues a request for the new polygon data.

761
choose input
and designate a request
for location of a
specify a polygon

10. (original) An information terminal that receives map data having been transmitted and displays a map, comprising:

a reception unit that receives map data which include road data and background data corresponding to a slicing range within a predetermined distance from a route having been set;

a creation unit that newly creates a new polygon data, if an original polygon data contained in the background data included in the map data is partially contained in the slicing range and another portion of the original

polygon data is outside the slicing range, by removing polygon data corresponding to the portion outside the slicing range from the original polygon data; and

a display unit that displays a map based upon the map data and the new polygon data having been received.

11. (original) A map data transmitting method comprising steps of:

setting a specific route;

extracting a road map corresponding to a first slicing range within specific distance from the route having been set and background data corresponding to a second slicing range within specific distance from the route having been set, based upon map data that include road data and background data; and

transmitting the road data and the background data having been extracted.

12. (original) A map data transmitting method according to claim 11, wherein:

in the extracting step, if an original polygon data contained in the extracted background data is partially contained in the second slicing range and another portion of the polygon is outside the second slicing range, polygon data are newly created by removing polygon data corresponding to the portion outside the second slicing range from the original polygon data and background data containing the new polygon data are transmitted.

13. (currently amended) A map data transmitting method according to claim 11 ~~or claim 12~~, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

14. (currently amended) A map data transmitting apparatus that executes a map data transmitting method according to ~~any of claims 11 through 13~~ claim 11.

15. (original) An information terminal, comprising:
a reception unit that receives map data transmitted from a map data transmitting apparatus according to claim 14; and
a display unit that displays a map based upon the map data having been received.

16. (currently amended) An information terminal according to ~~any of claims 8 through 10 and claim 15~~ claim 8, wherein:

the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

R59 color
data is used
to distinguish
between
maps w/
color code

R.61

16 17. (currently amended) A map data transmitting system, comprising:

a map data transmitting apparatus according to claim 7; and that
executes a map data transmitting method having the steps of:
setting a specific route;
specifying map data contained in a slicing range within a predetermined
distance from the route having been set based upon map data that include road
data and background data;
newly creating a new polygon data if an original polygon data contained in
the background data included in the specified map data is partially contained in
the slicing range and another portion of the original polygon data is outside the
slicing range, by removing polygon data corresponding to the portion outside the
slicing range from the original polygon data;
transmitting a road map specified in correspondence to the map data and
background data containing the new polygon data; and
an information terminal according to claim 8. terminal, including:
a reception unit that receives map data transmitted from a map data
transmitting apparatus; and
a display unit that displays a map based upon the map data having been
received.

5 18. (new) A map data transmitting method according to claim 3,
wherein;

when the new polygon data are transmitted, information indicating that the new polygon data are transmitted is appended to transmission data being transmitted.

5 19. (new) A map data transmitting method according to claim 4, wherein:

when the new polygon data are transmitted, information indicating that the new polygon data are transmitted is appended to transmission data being transmitted.

6 20. (new) A map data transmitting method according to claim 2, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

6 21. (new) A map data transmitting method according to claim 3, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

4 22. (new) A map data transmitting method according to claim 4,
wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

6 23. (new) A map data transmitting method according to claim 5,
wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

2 24. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 2.

3 25. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 3.

4 26. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 4.

5 27. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 5.

6 28. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 6.

6 29. (new) A map data transmitting method according to claim 12, wherein:

the route which is set is a recommended route calculated based upon a current point and a destination indicated in a route search request having been transmitted.

12 30. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 12.

13 31. (new) A map data transmitting apparatus that executes a map data transmitting method according to claim 13.

16 32. (new) An information terminal according to claim 9, wherein:
the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

16 33. (new) An information terminal according to claim 10, wherein:
the new polygon data are displayed in a display mode which indicates that the polygon data on display are different from the original polygon data.

16 34. (new) An information terminal according to claim 15, wherein:
the new polygon data are displayed in a display mode which indicates that
the polygon data on display are different from the original polygon data.